

## § 42.20–60

## 46 CFR Ch. I (10–1–12 Edition)

### § 42.20–60 Deduction for superstructures and trunks.

(a) Where the effective length of superstructures and trunks is  $1.0L$ , the deduction from the freeboard shall be 14 inches at 79 feet length of vessel, 34 inches at 279 feet length, and 42 inches

at 400 feet length and above; deductions at intermediate lengths shall be obtained by linear interpolation.

(b) Where the total effective length of superstructures and trunks is less than  $1.0L$  the deduction shall be a percentage obtained from Table 42.20–60(b)(1) or Table 42.20–60(b)(2):

TABLE 42.20–60(b)(1)—PERCENTAGE OF DEDUCTION FOR TYPE “A” VESSELS

|   | Total effective length of superstructures and trunks |      |      |      |      |      |      |      |      |      |      |
|---|--|------|------|------|------|------|------|------|------|------|------|
|   | 0  | 0.1L | 0.2L | 0.3L | 0.4L | 0.5L | 0.6L | 0.7L | 0.8L | 0.9L | 1.0L |
| Percentage of deduction for all types of superstructures <sup>1</sup> ..... | 0  | 7    | 14   | 21   | 31   | 41   | 52   | 63   | 75.3 | 87.7 | 100  |

<sup>1</sup> Percentages at intermediate lengths of superstructures and trunks shall be obtained by linear interpolation.

TABLE 42.20–60(b)(2)—PERCENTAGE OF DEDUCTION FOR TYPE “B” VESSELS

[Percentage of deduction<sup>1</sup>]

|   | Total effective length of superstructures and trunks |   |      |      |      |      |      |      |      |      |      |      |
|---|--|---|------|------|------|------|------|------|------|------|------|------|
|   | Line   | 0 | 0.1L | 0.2L | 0.3L | 0.4L | 0.5L | 0.6L | 0.7L | 0.8L | 0.9L | 1.0L |
| Vessels with forecastle and without detached bridge ..... | I  | 0 | 5    | 10   | 15   | 23.5 | 32   | 46   | 63   | 75.3 | 87.7 | 100  |
| Vessels with forecastle and detached bridge .....         | II   | 0 | 6.3  | 12.7 | 19   | 27.5 | 36   | 46   | 63   | 75.3 | 87.7 | 100  |

<sup>1</sup> Percentages at intermediate lengths of superstructures and trunks shall be obtained by linear interpolation.

(c) For vessels of Type “B”:

(1) Where the effective length of a bridge is less than  $0.2L$ , the percentages shall be obtained by linear interpolation between lines I and II;

(2) Where the effective length of a forecastle is more than  $0.4L$ , the percentages shall be obtained from line II; and,

(3) Where the effective length of a forecastle is less than  $0.07L$ , the percentages in Table 42.20–60(b)(2) of this paragraph shall be reduced by:

$$5(0.07L - f)/0.07L$$

$L$  is the length of vessel as defined in § 42.13–15(a),

$f$  is the effective length of the forecastle.

[CGFR 68–60, 33 FR 10065, July 12, 1968, as amended by CGFR 68–126, 34 FR 9015, June 5, 1969]

### § 42.20–65 Sheer.

(a) *General.* (1) The sheer shall be measured from the deck at side to a line of reference drawn parallel to the keel through the sheer line amidships.

(2) In vessels designed with a rake of keel, the sheer shall be measured in re-

lation to a reference line drawn parallel to the design load waterline.

(3) In flush deck vessels and in vessels with detached superstructures the sheer shall be measured at the freeboard deck.

(4) In vessels with topsides of unusual form in which there is a step or break in the topsides, the sheer shall be considered in relation to the equivalent depth amidships.

(5) In vessels with a superstructure of standard height which extends over the whole length of the freeboard deck, the sheer shall be measured at the superstructure deck. Where the height exceeds the standard the least difference ( $Z$ ) between the actual and standard heights shall be added to each end ordinate. Similarly, the intermediate ordinates at distances of  $\frac{1}{6}L$  and  $\frac{1}{3}L$  from each perpendicular shall be increased by  $0.444Z$  and  $0.111Z$  respectively.

(6) Where the deck of an enclosed superstructure has at least the same sheer as the exposed freeboard deck, the sheer of the enclosed portion of the freeboard deck shall not be taken into account.